Swami Ramanand Teerth Marathwada University, Nanded.

Synopsis of the Proposed Research work for the Degree of Doctor of Philosophy in Commerce.

"A STUDY OF FINANCIAL IMPACT OF THE AGRICULTURE IRRIGATION MANAGEMENT SYSTEM ON FARMERS OF MARATHWADA REGION"

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Introduction:

Irrigation is becoming more and more important from the point of the development of the whole world's agriculture economy. The impact of irrigation is all pervading as it leads to change in cropping pattern, increased yield rates and lab our utilization and ultimately it brings prosperity to the areas, hence irrigation is regarded as a catalyst for socio-economic change that sets in motion the productive force in the agricultural sector. Proper Irrigation is the most important instrument for the development of the agriculture. The agriculture of different region and countries in the world enjoying high productivities in the different crops are found to be mainly depended on irrigation. Irrigation in an agrarian economy assumes the same importance as a blood in human body.

Meaning and definitions of irrigation:

1. Irrigation is defined as the artificial application of water to soil, for the purpose of supplying water essential to plant growth. It is mean by which water is conveyed to arid areas from rivers, reservoirs, lift, well, bore wells, to increase the fertility of the land. It is the science of harnessing the source of water and distributing the same for agricultural development.
2. Universal reference encyclopedia, defines the term irrigation as the process of providing more water for agricultural land than is naturally available.
3. The new encyclopedia Britannica defines the term irrigation as the artificial application of water to land or soil to produce plant growth.

Irrigation and rural Development:

Irrigation is an important prerequisite for the agricultural and ultimately the rural development. Well managed irrigated agricultural contributes to economic growth. It provides higher level of income and creates additional employment opportunities in rural areas. Irrigation is useful to reduce the poverty of rural people to some extent. And agricultural prosperity is the key the general prosperity in the country. Agriculture would continue to be the backbone of the Indian economy in the near future. A developed agriculture is a prerequisite for the sustained and rapid economic and social development in India. Agricultural continues to hold the key to the progress of the economy as well as means for individual welfare.

- **Modes of irrigation:**

There are different irrigational sources in Maharashtra state. The following modes of irrigation are used for irrigating the agricultural land.

1) **Major irrigation project:** An irrigation project, which covers more than 10,000 hectares as the cultivable common area is called major project.
2) **Medium irrigation project:** Medium irrigation project are those with cultural command areas between 2000 to 10,000 hectares.
3) **Minor irrigation projects:** After independence of India government of Maharashtra has given more stress on minor irrigation projects.

- **Scope of the study:**

The present study aims to analyzing the financial impact of irrigation on farm economy. The study covers financial development and proposes of irrigation facilities to the extent to which it has increased agricultural production and productivity, farm income favorable cropping pattern and cropping intensity. It also intends to find its role as the generator of employment opportunities. In view of the difficulties involved in covering the entire country and also the entire farming community as unit of the study, and also with a view to achieve the greater accuracy of Maharashtra state in India.

- **Objectives of the study:**

The present study has the following specific objectives.

1. To study the financial impact of irrigation of agricultural development i.e., land use, cropping pattern system and intensity of cropping, in Study region.

2. To assess the study of the irrigation management system & financial system for various crop production in Marathwada region.

3. To assess the management of water system used in irrigation for the benefits of farmer.

4. To assess the impact of lift irrigation system in the study region.

5. To assess the impact of financial beneficial of the farmers for crop production system in study region.

- **Hypothesis:**

The present study aims at testing the following hypotheses.

1. There is a significant influence of Proper financial irrigation makes favorable cropping pattern which to take more remunerative crops.

2. There is a significant influence of irrigation system benefits of crop development of farmer.

3. There is a significant influence of water sources for irrigation & Financial Growth to the farmer crops.

4. There is a significant influence the gross value of irrigated land than unirrigated areas.

*** Area of Study:**

An aspiration of the people of the backward Marathwada region happens to be one of the biggest water Irrigation management systems in Maharashtra serving benefits to five of its districts wise in Marathwada. The researcher specially selected for evaluating its performance on various aspects like system Performance, agricultural productivity and also the financial, environmental and social aspects 4 with a due comparison with adjoining other major, medium and minor projects in the areas.

*** Limitation of the study Research:**

1. The present study is limited to only impacts on Agriculture of selected irrigation Management system in Marathwada region of Maharashtra State.

2. This study is limited to Marathwada regions only.

3. The period of the study is limited from 2010 to 2023.

4. Due to time, money, and human research only Marathwada regions taken for study.

- **Research methodology:**

For the purpose of the present study both types of data were collected from primary and secondary sources.

- **Primary data:-** For the purpose of the study primary data were collected with the help of a (1) Well Structured Questionnaire (2) Field Survey (3) Interviews with Farmers (4) Discussion with the Government Officials for getting accurate information.
- **Secondary data: -** Secondary data were collected from various publications of the state & local government offices such as

1. Socio- economic review and district statistical abstract of Marathwada.

2. State –wise agricultural statistical information of India.

*** Sample design:**

The samplings Design was adopted by convince sampling method for selection of irrigation projects and farm householders. The focus of this research will be on "A Study of Impact of The Agriculture Irrigation Management System on Farmer of Marathwada Region**"**. For the purpose of the study 01 major, 05 medium and other minor irrigation projects were selected. For the purpose of the study the primary data were collected from 500 farm households in selected irrigation projects area from both regions. A total sample of 500 were studied, out of which 150 sample farmers were taken from head reach, 200 farmers from middle reach, 5 and 150 farmers from tail reach of Marathwada region. For the purpose of collection of data well-structured questionnaire and interview techniques will be used for farmers.

- **Statistical Tools and Techniques:**

The collected data were analyzed and interpreted by means of various statistical methods such as classification, tabulation, graphic presentation, flow charting etc. Statistical techniques like Percentages, Averages, and ratio will be used for the analysis of data based on management.

- **Review of literature;**

In this chapter various review of literature has been reviewed from various Books, Online and offline reputed journals government reports, planning commission reports, Irrigation commission's reports, Magazine, Etc.

- **Irrigation Profile of Marathwada Regions**

This chapter is Marathwada region has all district's detailed study has undertaken. Such as Irrigation development, District-wise ultimate irrigation potential , Irrigation potential created, 'Basin-wise Area and Availability of water, District-wise Ultimate

Irrigation Potential, Planning wise Irrigation Potential created and Utilized in Marathwada Region, Minor irrigation projects, District-wise abstract of irrigation projects for constructive purpose, Season wise irrigation potential of Resource Department of Aurangabad, Project Session wise created irrigation potential in Marathwada region, etc.

- **CHAPTER SCHEMES ***

Chapter –I Introduction

Chapter –II Research Methodology And Review of literature

Chapter –III Irrigation management system Profile of Marathwada Regions.

Chapter –IV Data collection and analysis.

Chapter –V Conclusion and suggestions

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